Remote control
(Provided)

KEY FEATURES

-1 / 2.8” CMOS, 3.4 MP
-Full HD 1080p
-128 x zoom (16 X Optical)
-Frame rate: 30 fps
-Large capture area
-Image save: SD card, USB
-Integrated touch screen
-RS-232C support
-Inbuilt light box
-LAN connectivity
-Split screen function
-Only 135mm high when folded

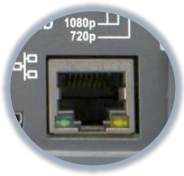
P100HD Superior Engineering from ELMO

High Quality Images, Premium Features

The introduction of the new flagship **P100HD** means ELMO now has a complete range of Visual Presenters. Unlike other manufacturers ELMO offers a solution to match all your needs. From the ultra portable MO1, the high quality, flexible L12i to the high quality P10, P30Hd for use in larger rooms and lecture theatres.

HIGH IMAGE QUALITY & ADVANCED 128X ZOOM

The P100HD **3.4M pixel** CMOS 1/2.8” Image Sensor, produces **full HD 1080p** resolution with outstanding colour reproduction and sharp image resolution. Moreover, the incredible **128x zoom** (16x optical and 8x Digital) means the P100HD can display the smallest objects clearly for a spectacular audience experience.



SEND HIGH-RESOLUTION IMAGES VIA NETWORKS

The exceptional connectivity of the P100HD includes a **LAN port**. to view live images using browser software. The **FTP client** feature enables still images to be stored on the FTP server, creating infinite possibilities and versatility for the visual presenter.

IN-BUILT TOUCH SCREEN LCD MONITOR

The P100HD’s built-in **touch screen LCD monitor** means the presenter is always aware of what the audience can see and has the ability to accurately position their materials. What's more, the user friendly touch screen interface allows the key functions to be easily controlled at your fingertips.

ADVANCED SWITCHER CAPBILITY

Integrated with **2x HDMI input, 2 x RGB input** and variable output options, the new P100HD can be used as a switcher enabling the presenter to instantly change contents or even compare the images from different devices. Simultaneously view live images from the P100HD and a PC screen for more flexible presentations.

P100HD SPECIFICATIONS

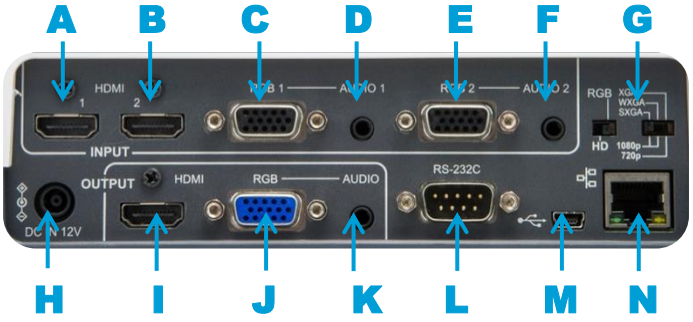
MAIN CAMERA

IMAGE PICK-UP DEVICE	1/2.8” CMOS
EFFECTIVE PIXELS	H1920, V1536
FRAME RATE	30 fps
ZOOM	16 x Optical zoom (8 x digital zoom)
LENS	f =4.9mm ～ 78.4mm（16x zoom） F2.7
SHOOTING AREA	MAX 400mm 320mm (SXGA)
FOCUS	Auto/Manual/Zoom Sync
RESOLUTION	1080p/720p/SXGA/ WXGA/XGA
FLICKER CORRECTION	Provided
WHITE BALANCE	Auto/Manual
3D NOISE REDUCTION	Provided
POSI/NEGA	Provided
PAUSE	Provided
STILL IMAGE STORAGE	Provided
IMAGE ROTATION	0˚/180˚
MOVIE STORAGE	Provided
STILL IMAGE STORAGE	Provided
INPUT TERMINALS	RGB input Mini Dsub 15P x 2 HDMI input terminal Type A x 2 Mic In/Line In terminal (shared) Φ3.5mm stereo minijack x 1 Line In terminal Φ3.5mm stereo minijack x 2
OUTPUT TERMINALS	RGB output Mini Dsub 15P x 1 HDMI output terminal Type A x 1 Line Out terminal Φ3.5mm stereo minijack x 2
USB 2.0	Provided (Mini B)
ETHERNET TERMINAL	Provided
EXTERNAL MEMORY	SD card slot x1 USB host (2.0) Type A receptacle x 1
MIC	Built-in Mic, Mic-in/Mic out
AUDIO IN/OUT	Provided
RS-232C	Provided
BUILT-IN MONITOR	Provided (Touch applicable)
UPPER/BASE LIGHT	White LED

OTHERS

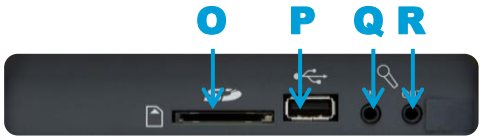
POWER SOURCE	12VDC (AC adapter AC100 - 240V)
POWER CONSUMPTION	26.4W
DIMENTIONS	W457xD519xH587mm (Setup) W457xD567xH137mm (Folded)
WEIGHT	Approx. 7.9kg
ACCESSORIES	Power cord, AC adapter, USB cable, CD-ROM(Image Mate software, User manual, Quick start guide), Safety Instructions

REAR PANEL



A. HDMI IN 1
B. HDMI IN 2
C. RGB IN 1
D. AUDIO IN 1
E. RGB IN 2
F. AUDIO IN 2
G. RESOLUTION
H. DC IN 12V
I. HDMI OUT
J. RGB OUT
K. AUDIO OUT
L. RS-232C
M. USB
N. LAN PORT

SIDE PANEL



O. SD CARD SLOT
P. USB
Q. MIC IN
R. MIC OUT

OPTION PRODUCTS

CRA-1 Wireless Tablet

CRB-1 Interactive-Pen

ANNOTATE OVER LIVE IMAGES WITHOUT A COMPUTER

With the embedded interactive software in the P100HD, the CRA-1 & CRB-1 can be used with the P100HD directly. Annotate over live images as well as present information with simple interactive whiteboard functionality such as **highlight, masking and contents comparing without the need for a PC.**

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DISTRIBUTED BY

P100HD Specifications

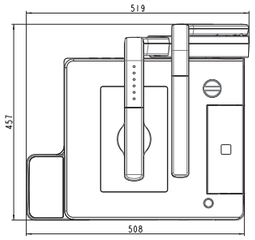
CODE : 1340　JAN : 4560353280666

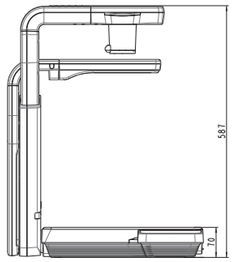
Power source	DC12V (AC adapter : AC100 to 240V)
Power consumption	26.4W
Dimensions	W 457 ×D 519 × H 587 [mm] (Set up) W 457 ×D 567 × H 137 [mm] (Folded)
Weight	Approx. 17.4 lbs (7.9kg) (Main unit only)
Input selection	Main camera / External ×4
Output terminal	RGB Mini Dsub 15P connector, female ×1　HDMI Type A×1　Line φ3.5mm stereo mini jack ×2
Input terminal	RGB Mini Dsub 15P connector, female ×2　HDMI Type A×2　Mic In/ Line In terminal (shared) φ3.5mm stereo mini jack ×1　Line φ3.5mm stereo mini jack ×2
Ext. control	USB device (2.0 compliant)　Type mini　Breceptacle ×1　RS-232C Dsub9P connector male ×1　Ethernet RJ45　connector ×1
Memory interface	SD card slot ×1　USB host (2.0 compliant)　Type A receptacle ×1
Lens	f = 4.9mm ~ 78.4mm (16x zoom) F2.7
Frame rate	30fps
Shooting area	1080p : Max. 400mm×223mm, Min. 27mm15mm 720p : Max. 400mm×223mm, Min.27mm15mm SXGA : Max.400mm×320mm, Min.27mm22mm WXGA : Max.400mm×248mm, Min.27mm17mm XGA : Max.400mm×299mm, Min.27mm20mm
Limit of focus adjustment	with Close-up lens TELE:250mm ~ 440mm from Close-up lens　WIDE : 90mm ~ 440mm from Close - up lens without Close - up lens TELE:500mm ~ ∞ from surface of Zoom lens　WIDE : 100mm ~ ∞ from surface of Zoom lens
Optical zoom	16 x
Digital zoom	8 x
Focus	Auto / Manual / Zoom Sync
Image pick-up device	1/2.8" CMOS
Total pixels	Horizontal 2144, Vertical 1588
Effective pixels	Horizontal 1920, Vertical 1536
Sync. system	Internal
Resolution	Analog RGB Horizontal 800TV lines or more, Vertical 800TV lines or more
Analog RGB output	Analog RGB 0.7V (p-p) 75 Ω unbalanced Sync. signal SXGA : positive polarity WXGA : horizontal negative polarity, vertical positive polarity XGA : negative polarity 1080p : positive polarity 720p : positive polarity SXGA : 1280 × 1024 @ 60Hz Horizontal frequency : 63.981kHz　Vertical frequency : 60.020Hz WXGA : 1280 × 800 @ 60Hz Horizontal frequency : 49.306kHz　Vertical frequency : 59.910Hz XGA : 1024 × 768 @ 60Hz Horizontal frequency : 48.363kHz　Vertical frequency : 60.004Hz 1080p : 1920 × 1080 @ 60Hz Horizontal frequency : 67.50kHz　Vertical frequency : 60.00Hz 720p : 1280 × 720 @ 60Hz Horizontal frequency : 45.00kHz　Vertical frequency : 60.00Hz
HDMI output	Image output : 1080p 720p　Audio output : PCM 44.1kHz sampling
White balance	Auto / One-Push / Manual
Brightness control	Auto(with level adjustment)/ Manual
Positive / Negative conversion	Provided
Color / B&W selection	Provided
Image rotation	0° / 180°
Image mode	Text1 / Text2 / Text3 / Graphics1 / Graphics2
Gamma setting	Possible (only for Graphics1 mode)
Edge effect	Provided (only for Graphics1 mode)
Pause	Provided
Still image save	Provided
Live image save	Provided
Flicker correction	60Hz / 50Hz
Upper lighting unit, Base lighting unit	White LED
Accessories	IR Wireless Remote Control, strap, RGB cable, USB cable, AC adapter, Power cord, AAA batteries, Image Mate instruction manual CD-ROM, LAN cable, ferrite core (for MIC IN cable and AUDIO OUT cable), important safeguards, Image Mate installation manual, Warranty card

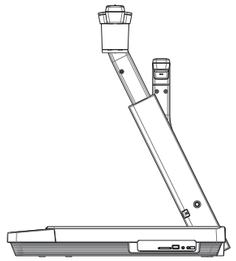
Network

Interface	10Base - T/100Base - TX (RJ-45)
Supporting protocol	IP (IPv4), ARP, ICMP, TCP, HTTP
Recommended browser	Internet Explorer 6.0 or later (Windows) Safari 5.0 or later (Mac)
Supporting OS	Windows XP (SP3) / Vista (SP2) / 7 (SP1) /8 Mac OS X 10.6.8 / 10.7.5 / 10.8.x
Java	JRE (Java Runtime Environment) 1.6.0_29 or later
Connection port number	HTTP : 80
Language	Japanese / English
Image format	Motion-JPEG
Image size	1080p Horizontal 1920, Vertical 1080 720p Horizontal 1280, Vertical 720 SXGA Horizontal 1280, Vertical 1024 WXGA Horizontal 1280, Vertical 800 XGA Horizontal 1024, Vertical 768
Frame rate	Max. approx. 5fps
Simultaneous connection at LIVE view	5 clients
Still image format	JPEG
Remote controllable functions	ZOOM, LAMP, BRIGHTNESS, FOCUS, TEXT/GRAPHICS, IMAGE ROTATION, POSI/NEGA, COLOR/B&W etc.

Profile







Rear Panel/ Side Panel

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This ELMO product complies with RoHS Directive 2002/95/EC (Restriction Of the use of certain Hazardous Substances in electronic equipment). This compliance helps to ensure a healthier and greener environment for all our children.

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ELMO

Greatness through the Power of Expression

VISUAL PRESENTER
P100HD

Vivid expression enhances the understanding of the audience.
The P100HD is fully integrated with an LCD Touch Panel, ensuring easy operation in every situation.

In a lecture or a seminar

Displaying enlarged images of your teaching materials is the most popular application of the document camera.

In a video conference

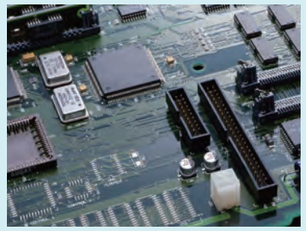
Conduct effective meetings by displaying documents or real objects to participants face-to-face.

In an internal meeting

Display new product samples, confidential or restricted documents.

For introducing products and demonstrations

Demonstrate how to use a keyboard, a smartphone or a tablet by showing the finger movements.



For inspection or quality control in production lines

Display enlarged images of small parts, detailed wiring or fine print on a circuit board.

As a useful rental item for events and conferences

The document camera is a favorite item for presenters at seminars and conferences.

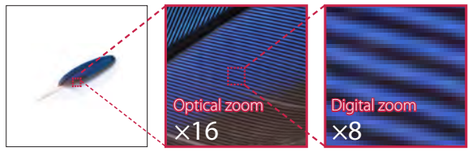
3.4 Megapixel CMOS Image Sensor & HDMI

The P100HD's megapixel image sensor captures everything from fine print to three-dimensional objects in 1080p full HD.

Powerful Optical & Digital Zoom

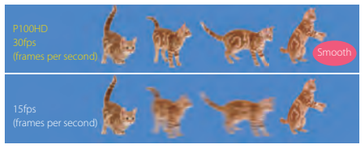
16x Optical zoom x 8x Digital zoom = 128x Total zoom

The powerful Optical & Digital zoom ensure that all materials, such as detailed craftsmanship or artwork, tiny components on circuit boards, or small print in books are clearly displayed when enlarged.



Smooth Movement with Audio at 30fps

The P100HD can capture and reproduce movement with audio at 30fps (frames per second) for the display of truly smooth, natural-looking motion.

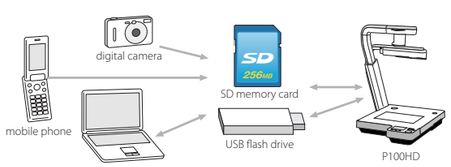


Network Server Function

By connecting the P100HD to a computer using a LAN cable, you can remotely control the P100HD and view or capture the live image via web browser.

Save Presentations on External Memory

Both video files (mp4) and still images (JPEG) can be saved on a USB flash drive or SD memory card for future use.
The saved image files can be displayed as individual files or as slideshow without using a computer or other hardware.
The audio from the built-in microphone and the external audio input can be output from the audio line output and the HDMI output.



Built-in Touch Panel LCD monitor

P100HD's Touch Panel LCD monitor is intuitive and easy to use. It allows you to straighten out the position of your materials without turning around to look at the image on the screen behind you.

Simple Operation with Wireless Remote Control

The uniquely designed remote control allows users to control the P100HD from almost anywhere in the room.

Flexible System Configuration

The P100HD is equipped with a built-in switcher function. It can handle different image signals such as RGB and HDMI and control multiple devices. By using the ELMO CRA-1 Wireless Tablet, you can annotate on live images captured by the P100HD while the image is displayed on a large screen. The CRA-1's wireless adapter can be plugged directly into the P100HD, allowing direct annotation on live images from anywhere in the room without having to use a computer.

CRA-1 Wireless Tablet
(sold separately)

Receives IR signal through Wireless Adapter